

REMARKS

At the outset, the Examiner is thanked for the thorough review and consideration of the subject application. The Office Action of January 26, 2004 has been received and contents carefully reviewed.

By this Amendment, Applicant amends claims 1, 3 and 12. Claims 20-24 have been withdrawn as the result of an earlier restriction requirement. Accordingly, claims 1-24 are currently pending in the present application. Reexamination and reconsideration of the application are respectfully requested.

In the Office Action, the Examiner objected to the disclosure because of informalities. Applicant herewith submits the replacement sheet replacing all the original drawings (Figs. 1-4) in which Figs. 2 and 4 have been amended as indicated in red in the annotated sheet to cure the minor inconsistencies. No new matter is added to the drawings. Applicant respectfully submits that, in view of the amendments in the Figs. 2 and 4, the objections are now believed to be moot.

In addition, the Examiner rejected claims 1, 2 and 8 under 35 U.S.C. § 102(b) as being anticipated by Lo (U.S. Patent No. 5,779,927), and rejected claims 1-19 under 35 U.S.C. § 103(a) as being unpatentable over Jeong (U.S. Patent No. 6,228,211). Applicant respectfully traverses these rejections.

Claim 1 is allowable over the cited references in that claim 1 recites a combination of elements including, for example, "An etching apparatus for etching glass substrates for a liquid crystal display comprising... an etchant heating part for heating the mixed etchant." None of the cited references, singly or in combination, teaches or suggests at least this feature of the claimed invention. Accordingly, Applicant respectfully submits that claim 1 and claims 2-11, which depend therefrom, are allowable over the cited references.

Applicant respectfully submits that there is no motivation for one of ordinary skill to combine the cited references and arrive at the claimed invention with any reasonable expectation of success. Lo relates to an etching of silicon nitride in phosphoric acid, which does not relate to etching glass substrates for a LCD device, which is the subject matter of Jeong. Therefore, Applicant further respectfully submits that the motivation to combine the references comes from the present invention and not from the cited references, which is impermissible.

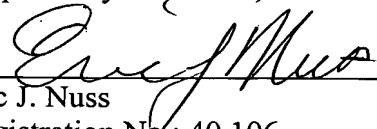
Claim 12 is allowable over the cited references in that claim 12 recites a combination of elements including, for example, "An apparatus for etching glass substrates for a liquid crystal display, comprising... an etchant heating element for heating the etchant." None of the cited references, singly or in combination, teaches or suggests at least this feature of the claimed invention. Accordingly, Applicant respectfully submits that claim 12, and claims 13-19, which depend therefrom, are allowable over the cited references.

Applicant believes the foregoing amendments place the application in condition for allowance and early, favorable action is respectfully solicited. If the Examiner deems that a telephone conference would further the prosecution of this application, the Examiner is invited to call the undersigned attorney at the telephone number (202) 496 - 7500. All correspondence should continue to be sent to the below-listed address.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time, or any other fees required to complete the filing of this response, may be charged to Deposit Account No. 50-0911. Please credit any overpayment to deposit Account No. 50-0911.

Dated: April 14, 2004

Respectfully submitted,

By 
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Attachments: Replacement Drawing Sheets
 Annotated Drawing Sheets

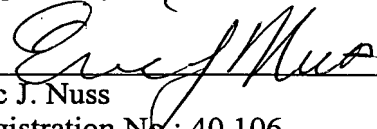
Claim 12 is allowable over the cited references in that claim 12 recites a combination of elements including, for example, "An apparatus for etching glass substrates for a liquid crystal display, comprising... an etchant heating element for heating the etchant." None of the cited references, singly or in combination, teaches or suggests at least this feature of the claimed invention. Accordingly, Applicant respectfully submits that claim 12, and claims 13-19, which depend therefrom, are allowable over the cited references.

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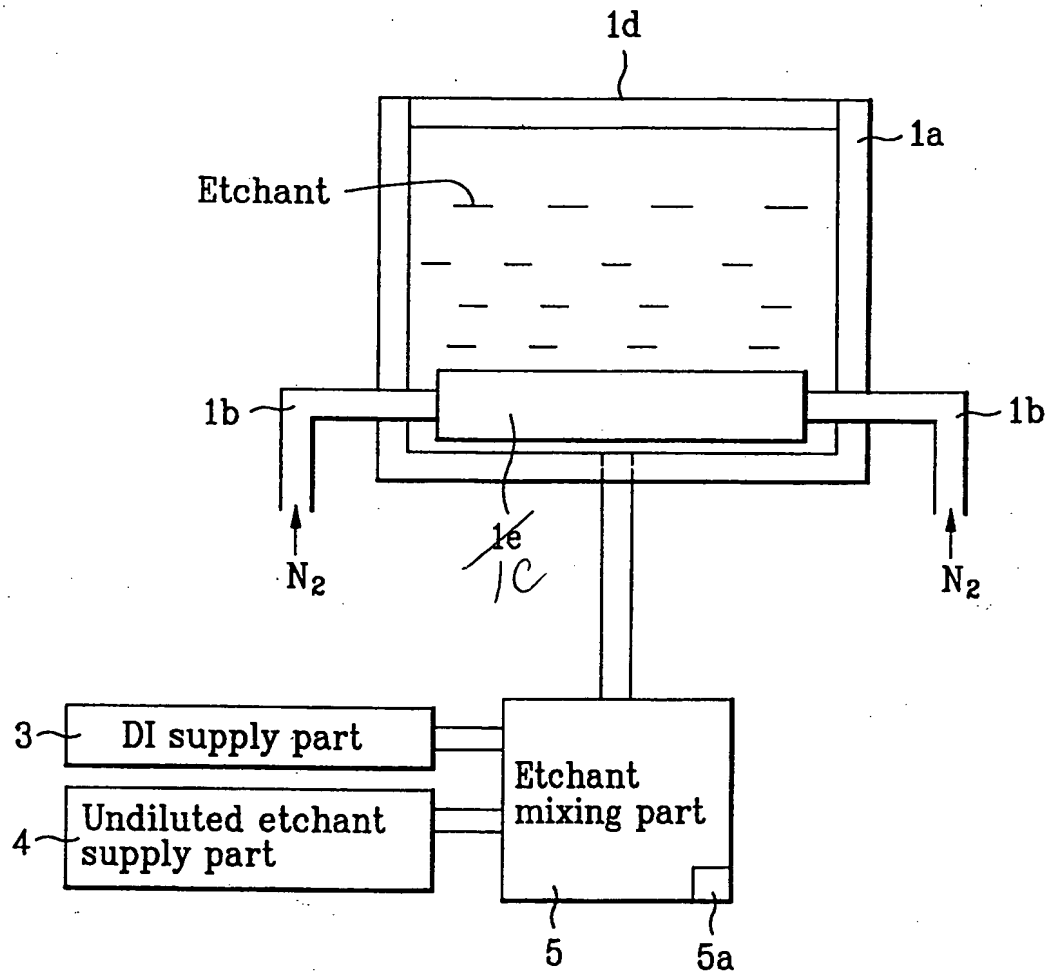
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ANNOTATED MARKED-UP
DRAWINGS

FIG. 2
Related Art



ANNOTATED MARKED-UP
DRAWINGS

FIG. 4

